

1/24

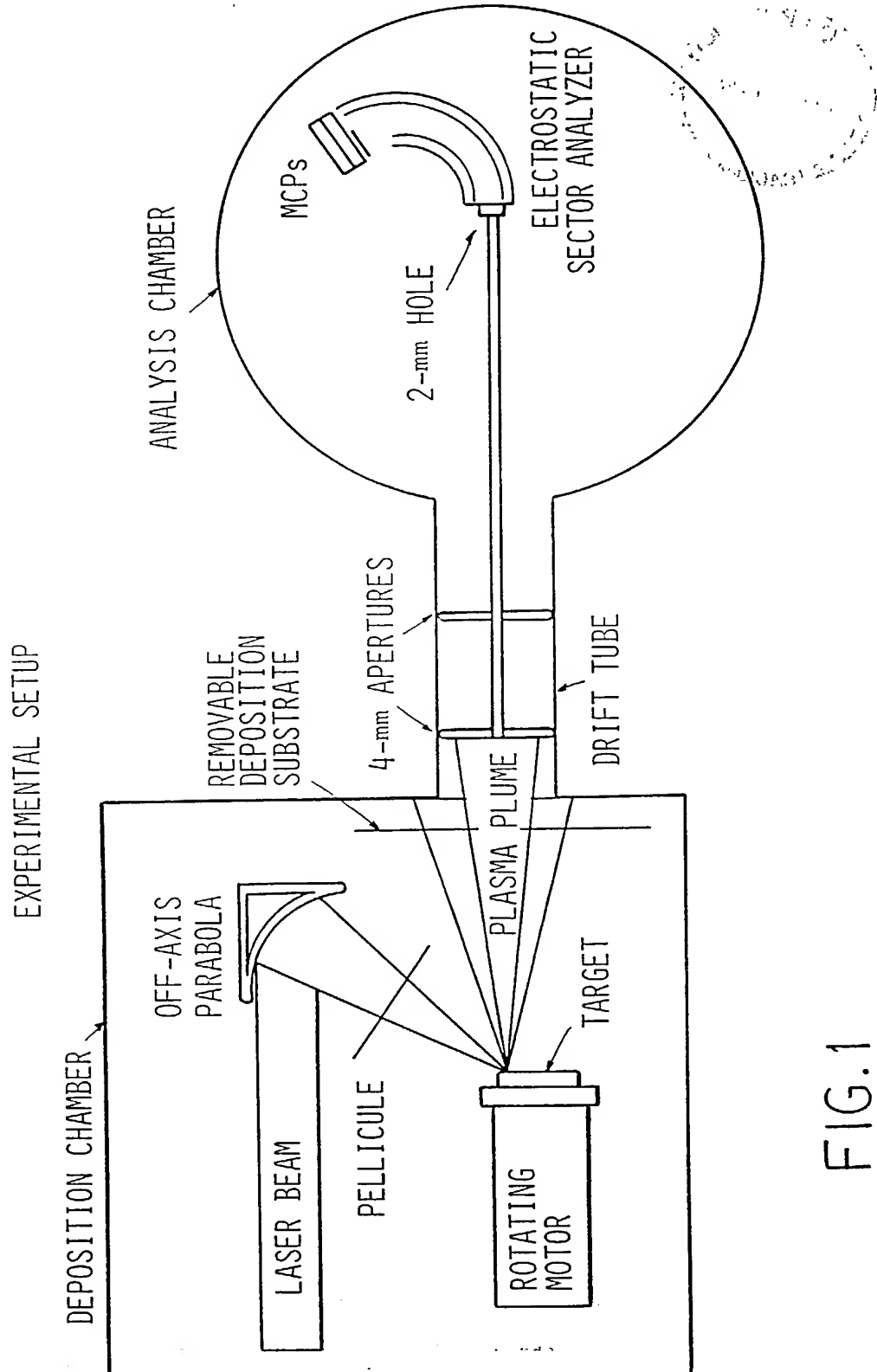


FIG.1

2/24

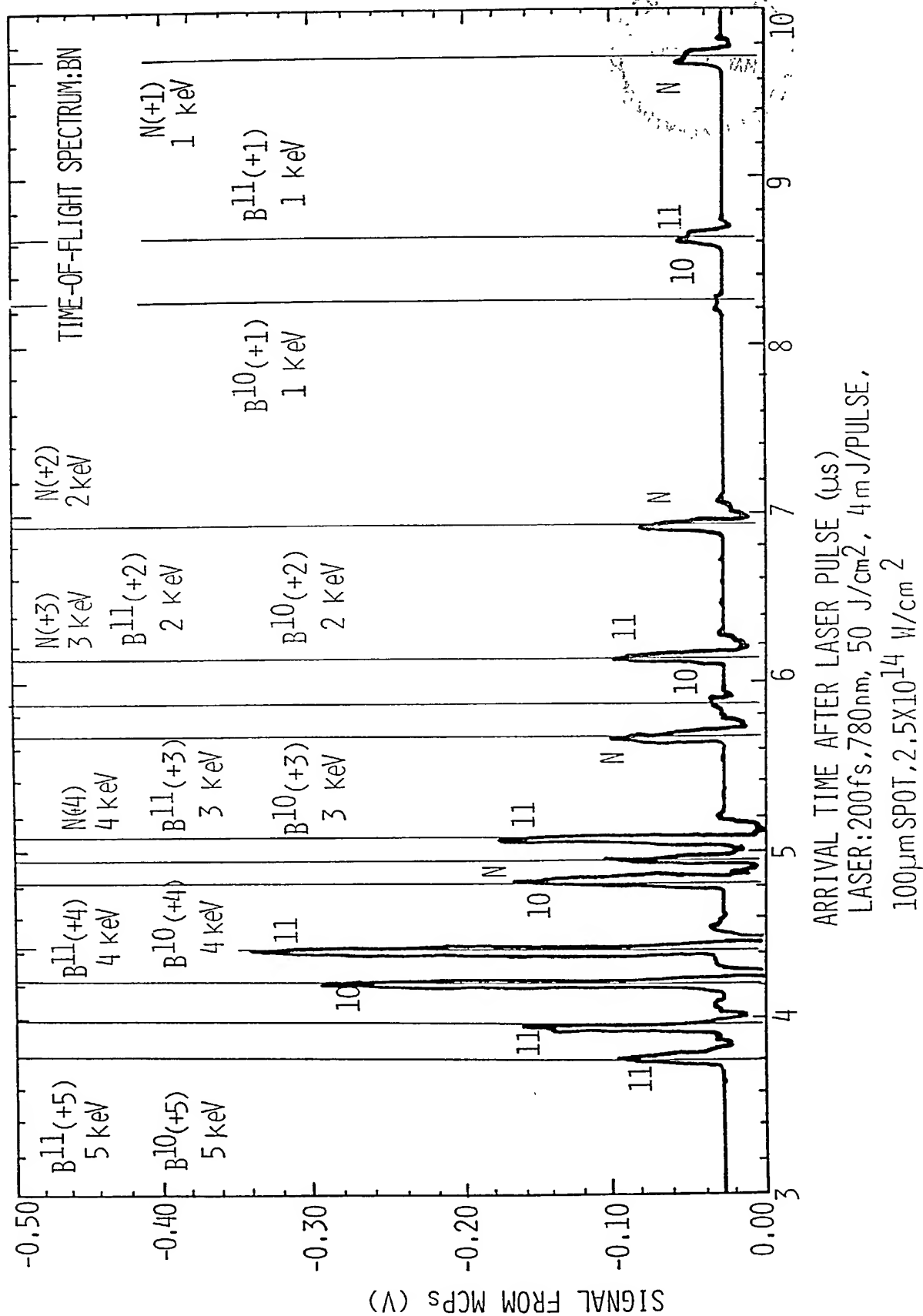


FIG. 2

3/24

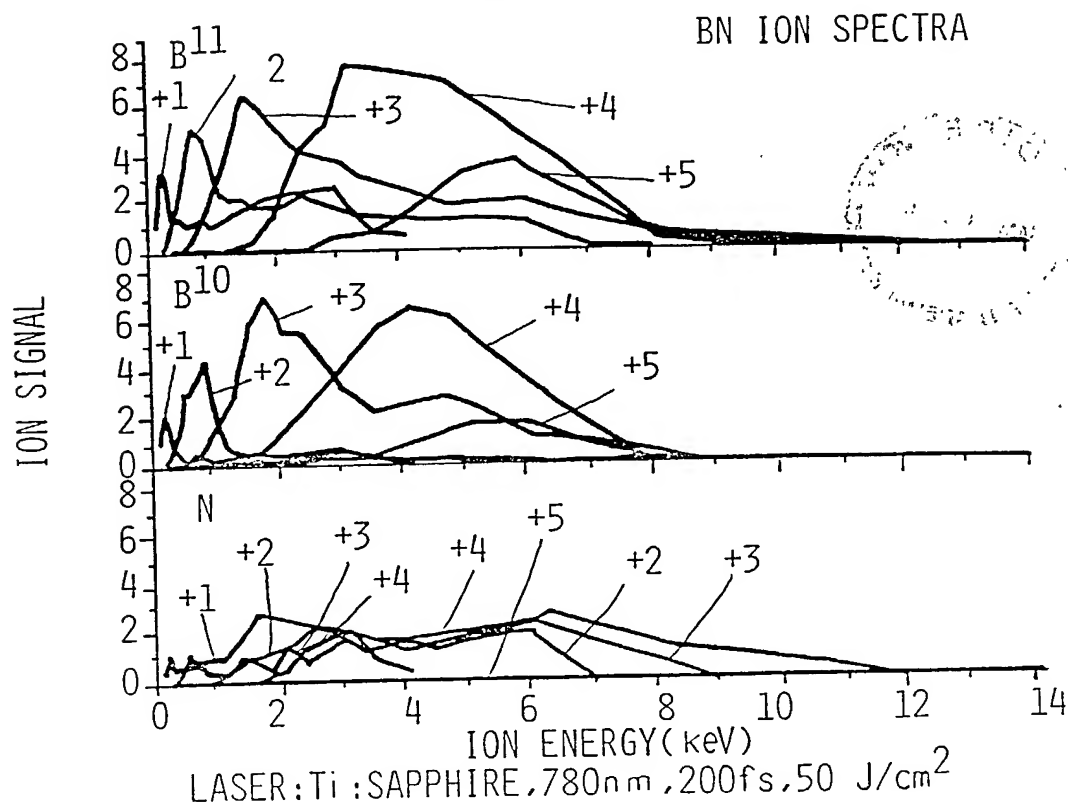


FIG.3A

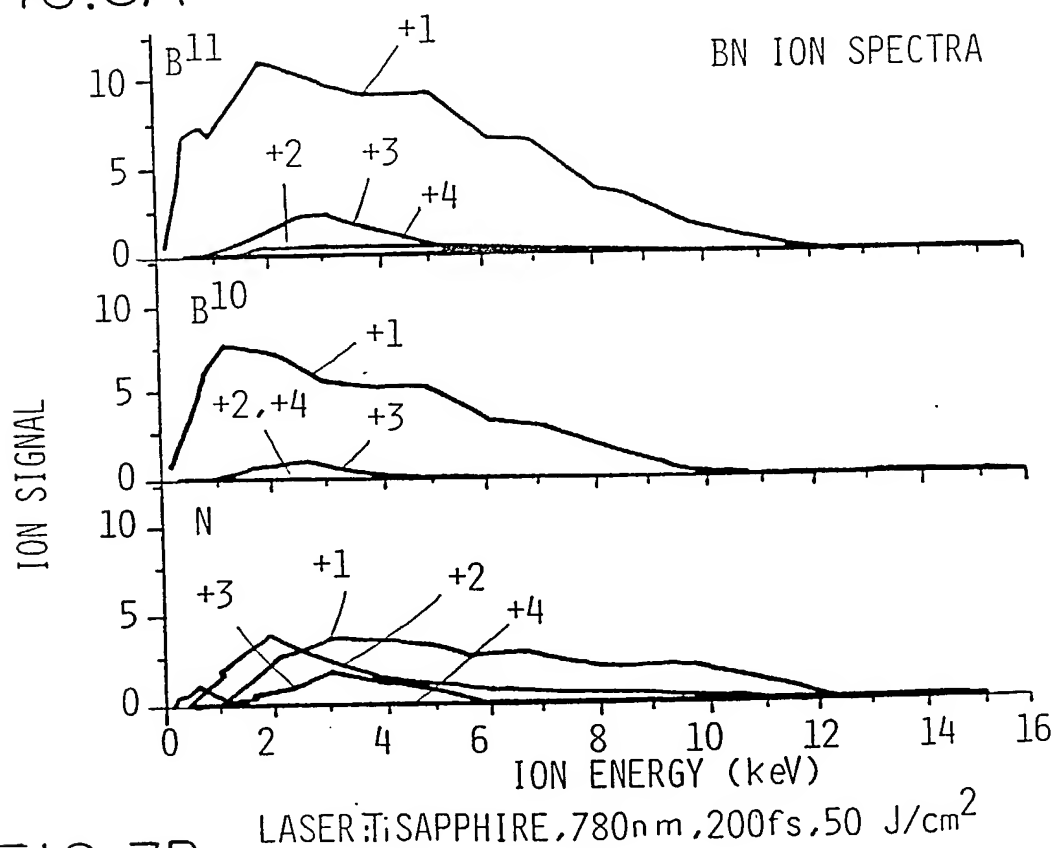


FIG.3B

4/24

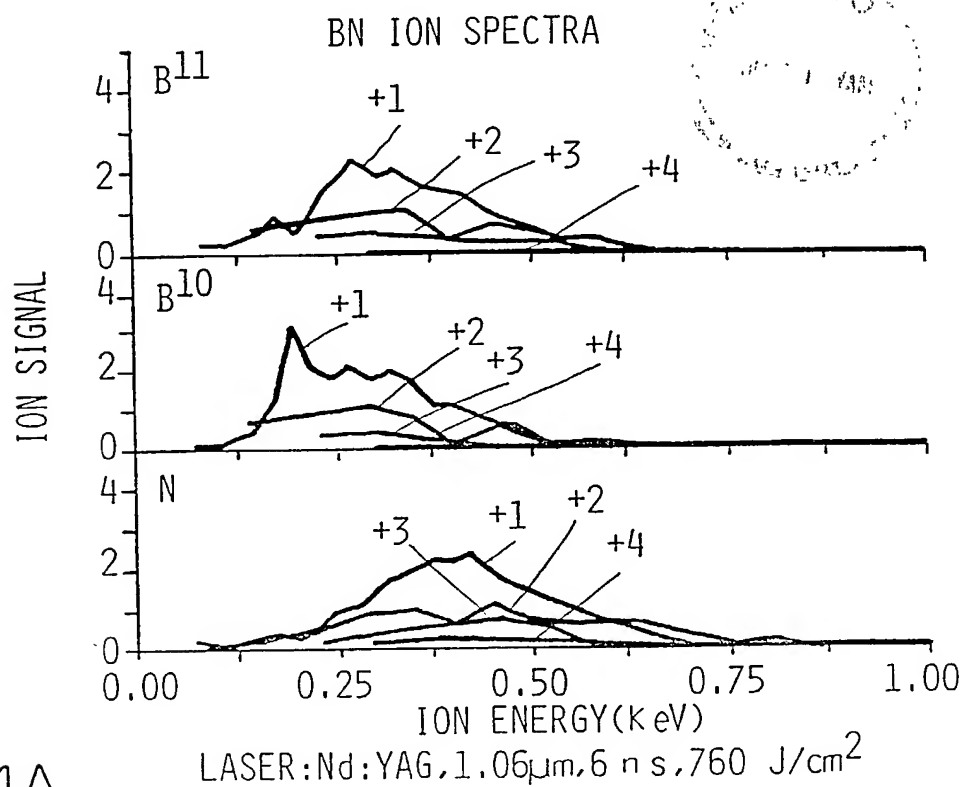


FIG.4A

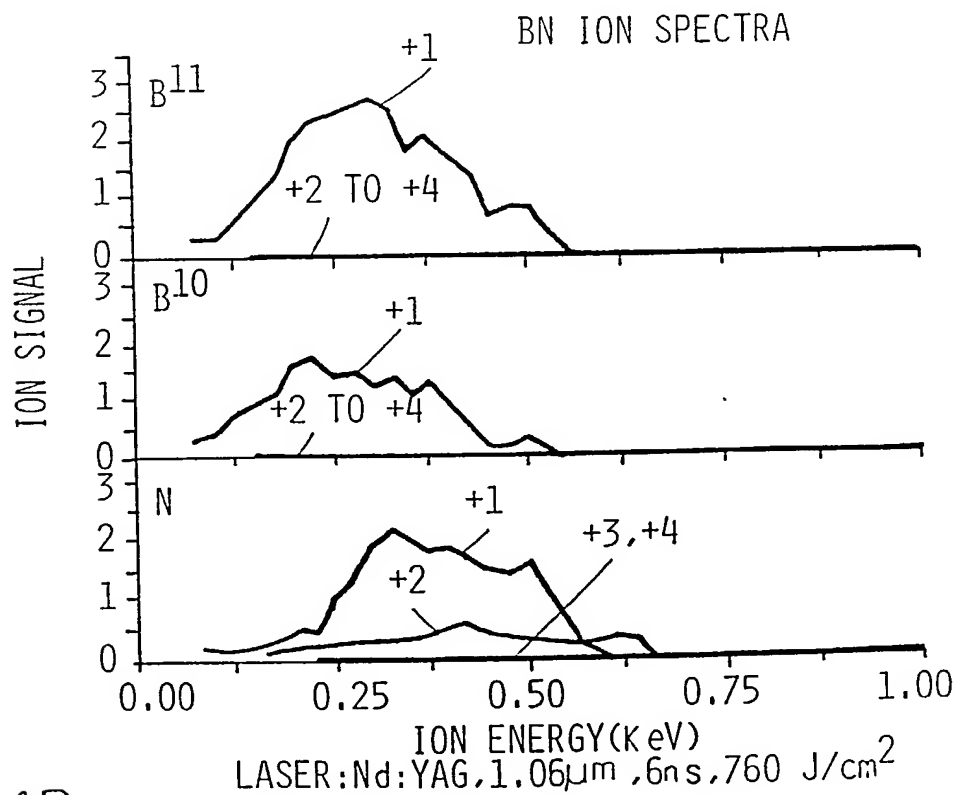


FIG.4B

5/24

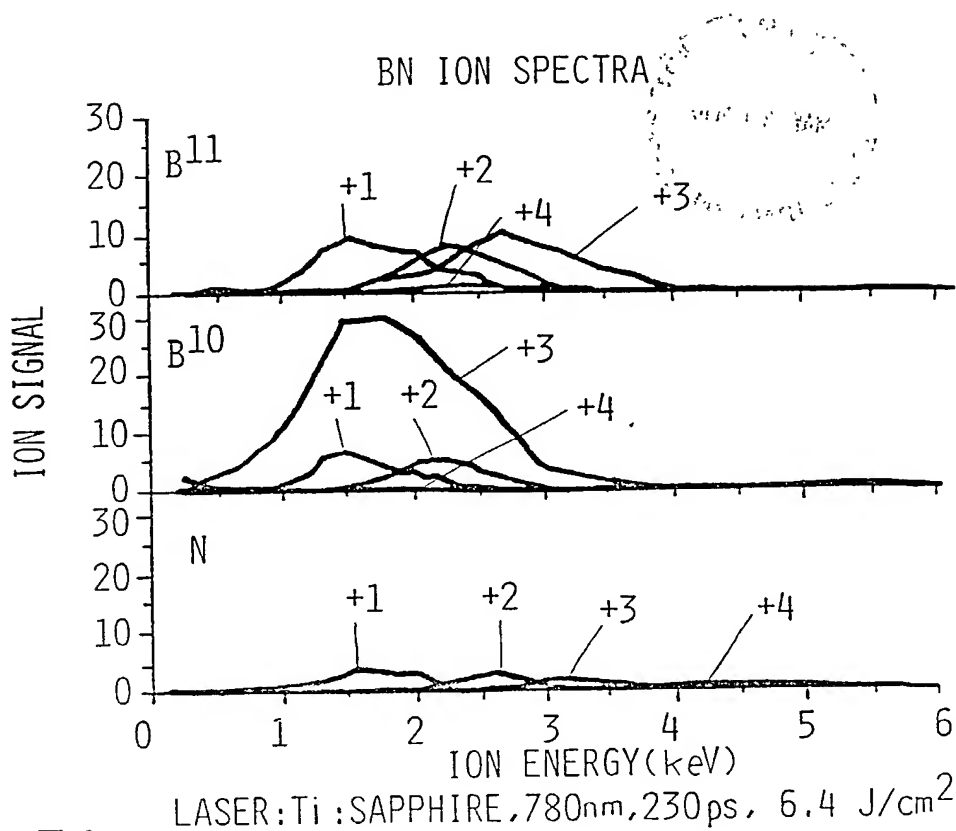


FIG. 5A

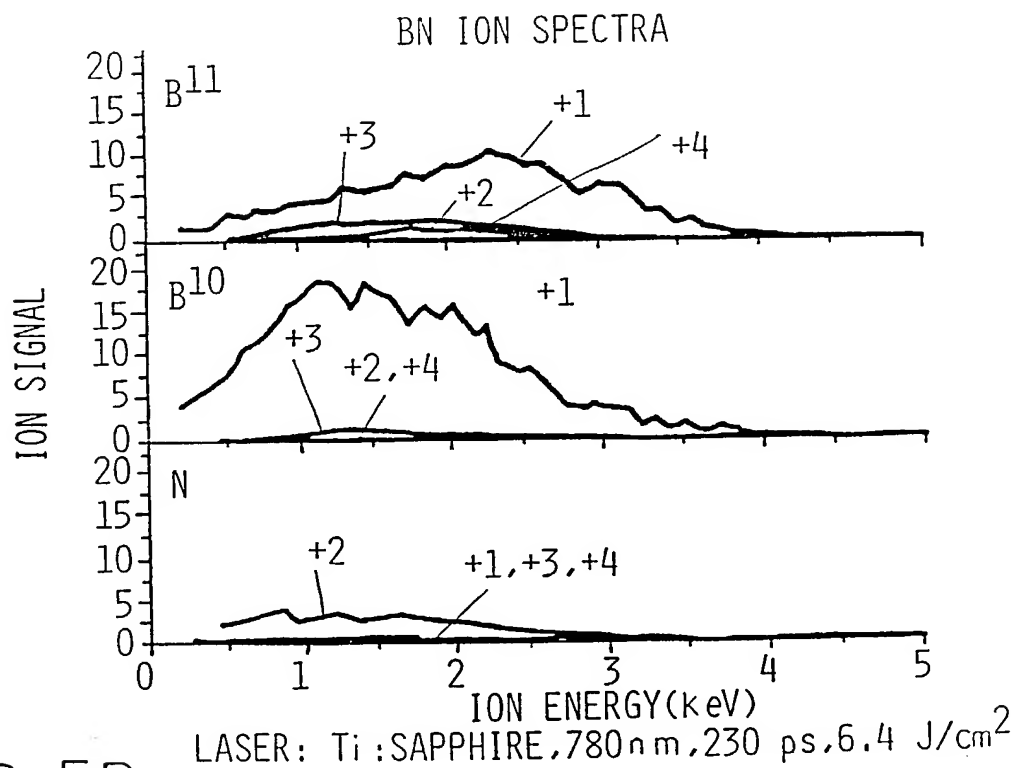


FIG. 5B

6/24

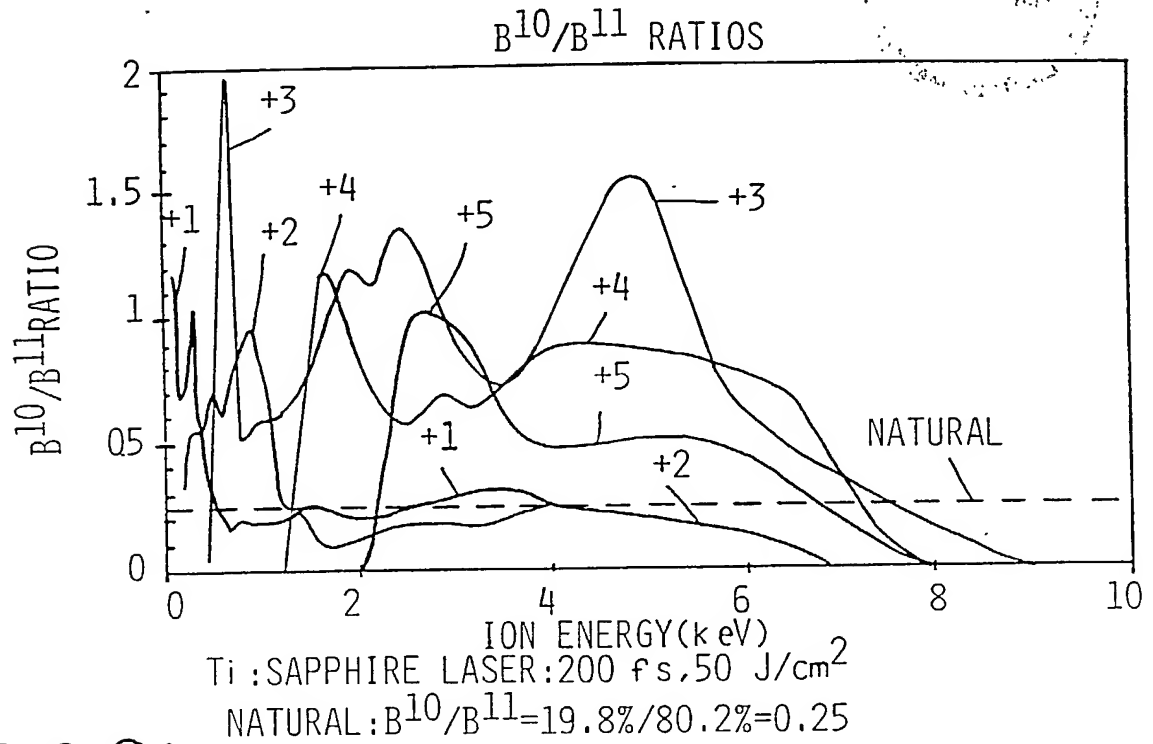


FIG.6A

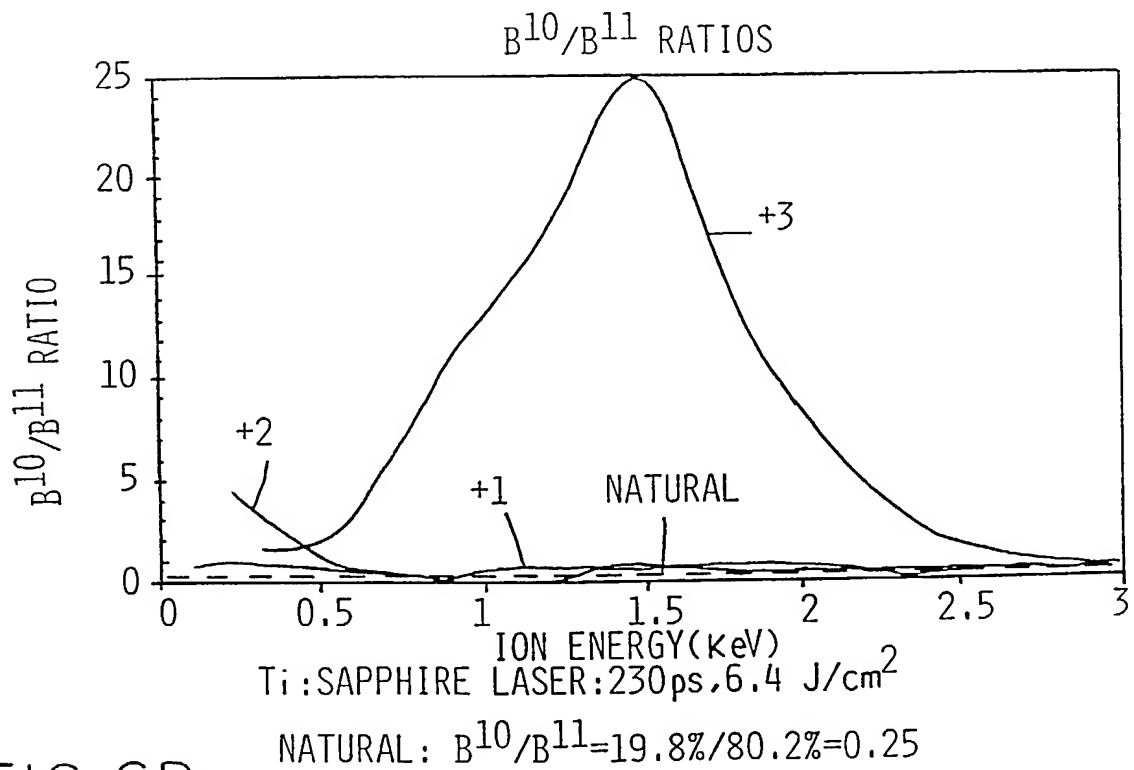


FIG.6B

7/24

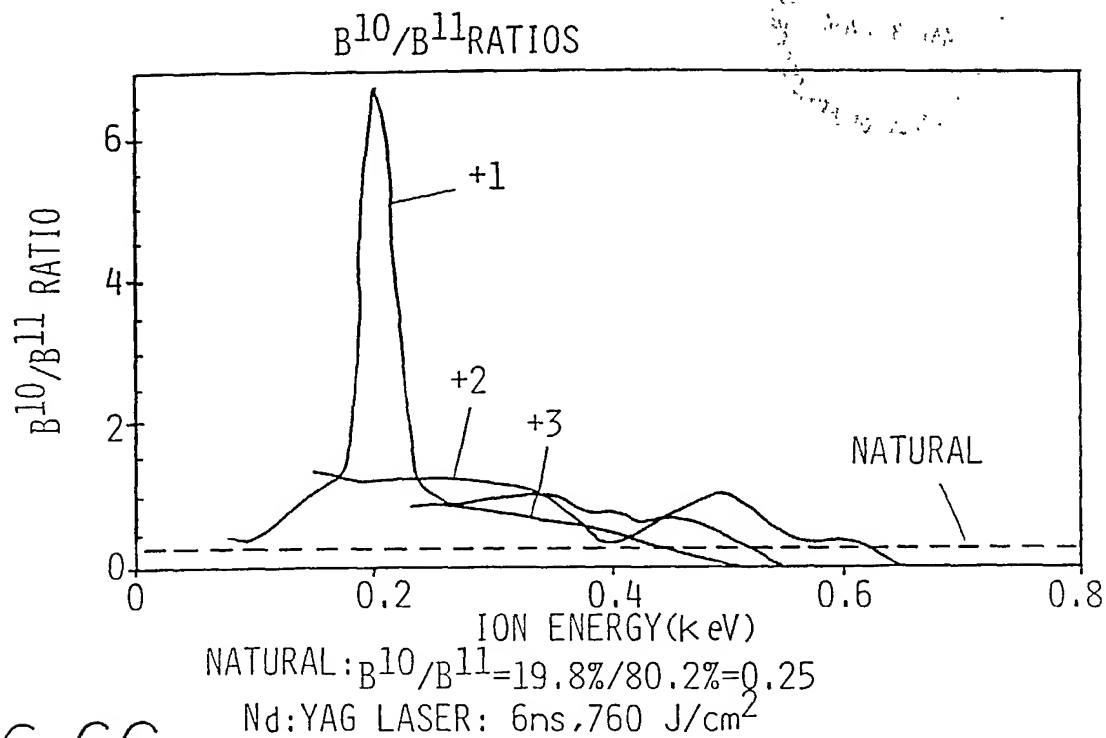


FIG. 6C

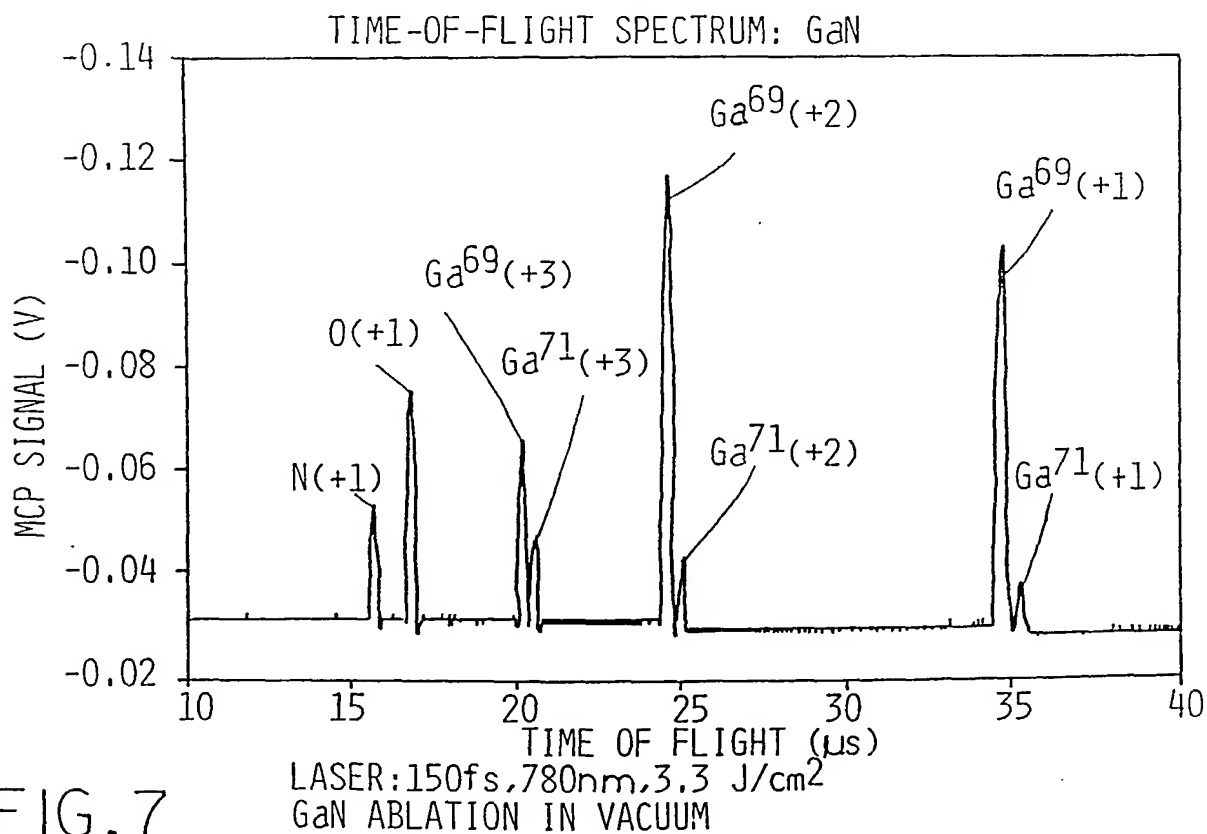


FIG. 7

8/24

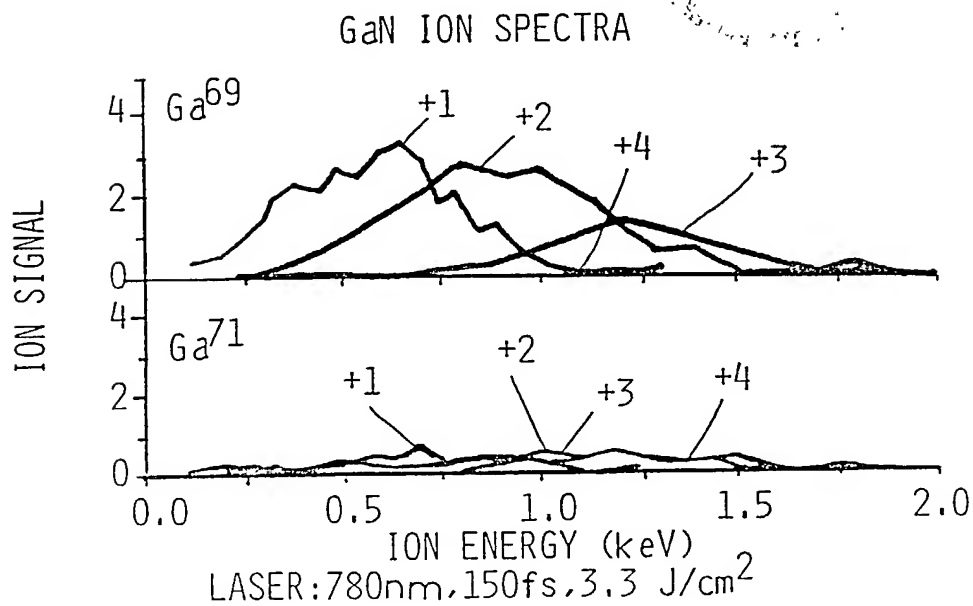


FIG. 8A

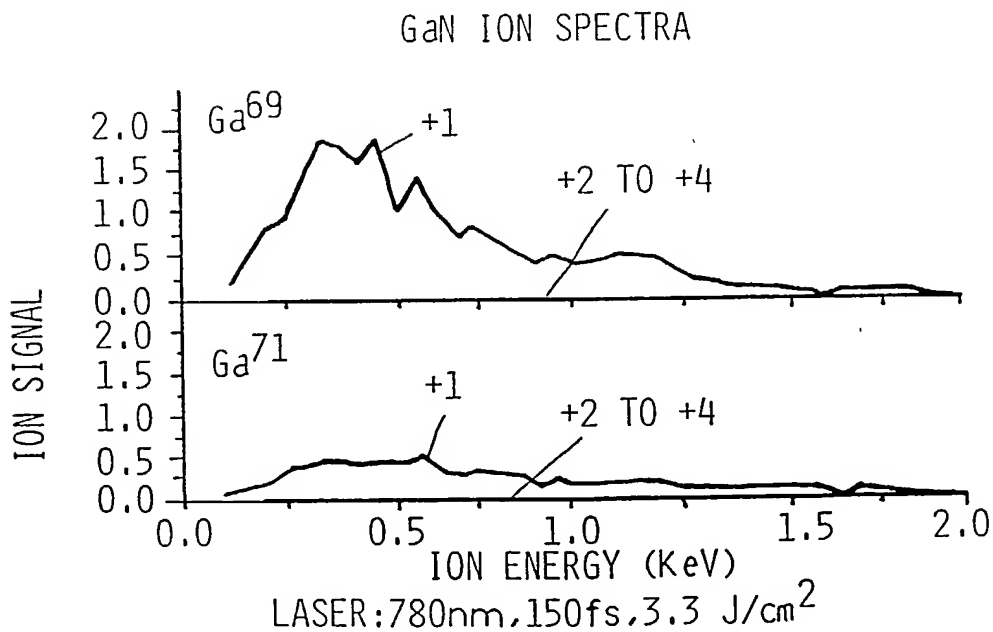
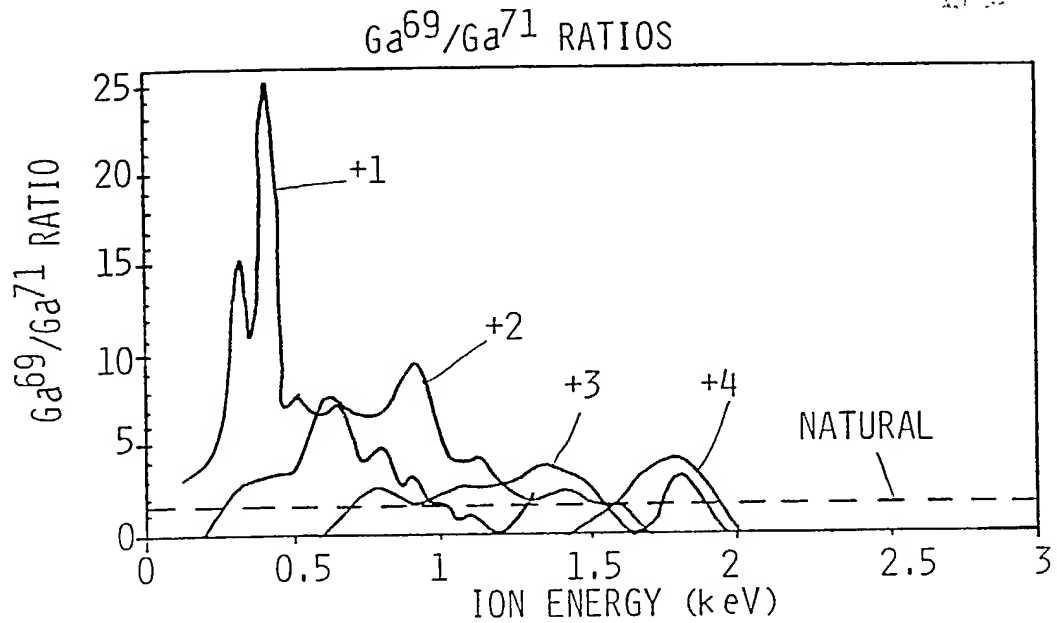


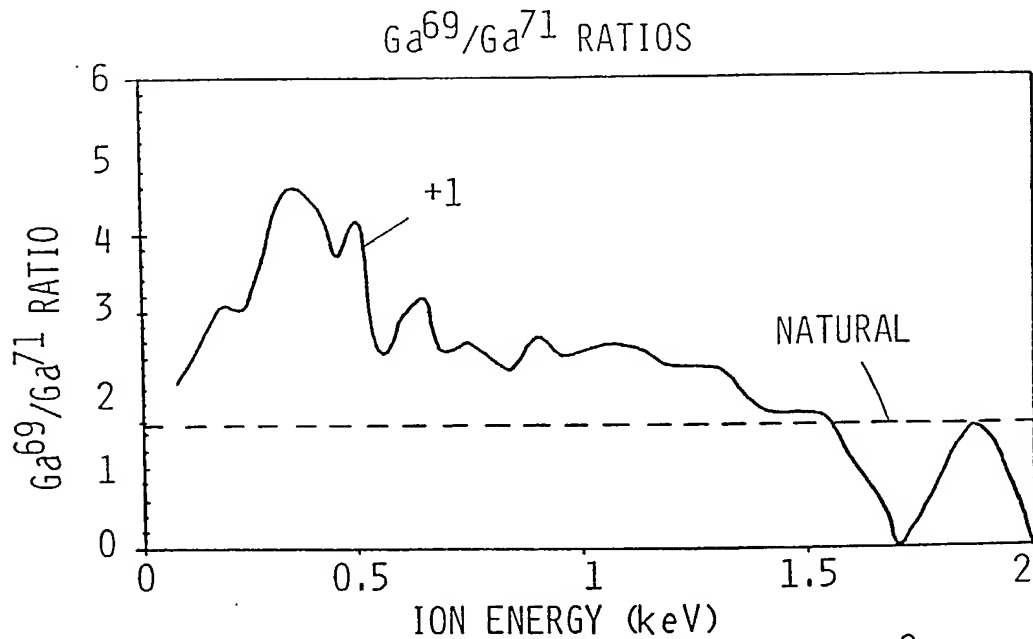
FIG. 8B

9/24



Ti:SAPPHIRE LASER: 150fs, 3.3 J/cm²
NATURAL: $\text{Ga}^{69}/\text{Ga}^{71} = 60.4\%/39.6\% = 1.53$

FIG.9A



Ti:SAPPHIRE LASER: 150fs, 3.3 J/cm²
NATURAL: $\text{Ga}^{69}/\text{Ga}^{71} = 60.4\%/39.6\% = 1.53$

FIG.9B

10/24

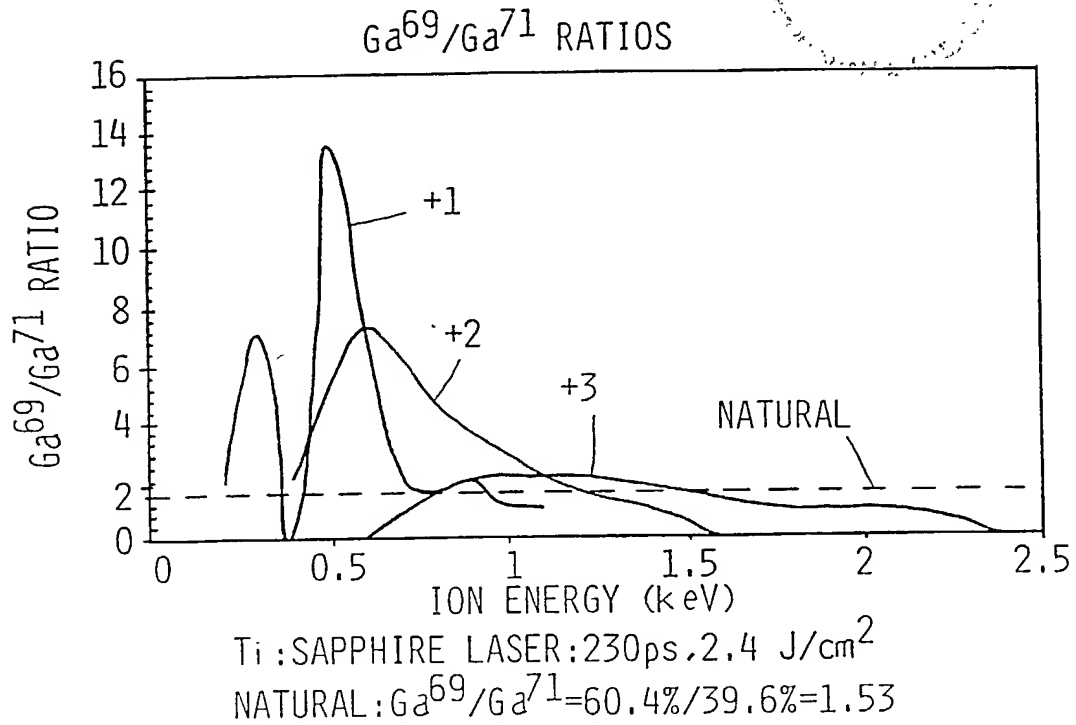


FIG.9C

2" SUBSTRATE HOLDER:
 TEMPERATURE: -196°C TO 1000°C
 ROTATION & TRANSLATION
 MOVED UP AND OUT OF PLUME FOR
 ELECTROSTATIC ANALYZER

MULTI-TARGET
 SELECTOR
 (4 TARGETS WITH
 ROTATION)

VACUUM: 10⁻⁹ TORR
 N₂ BACKFILL: 10⁻⁴ TORR

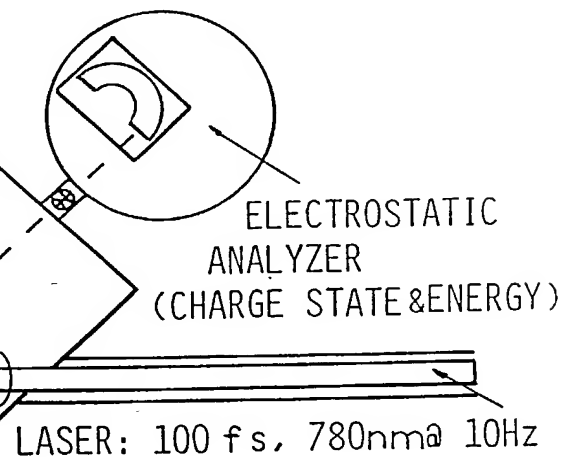


FIG.10

11/24

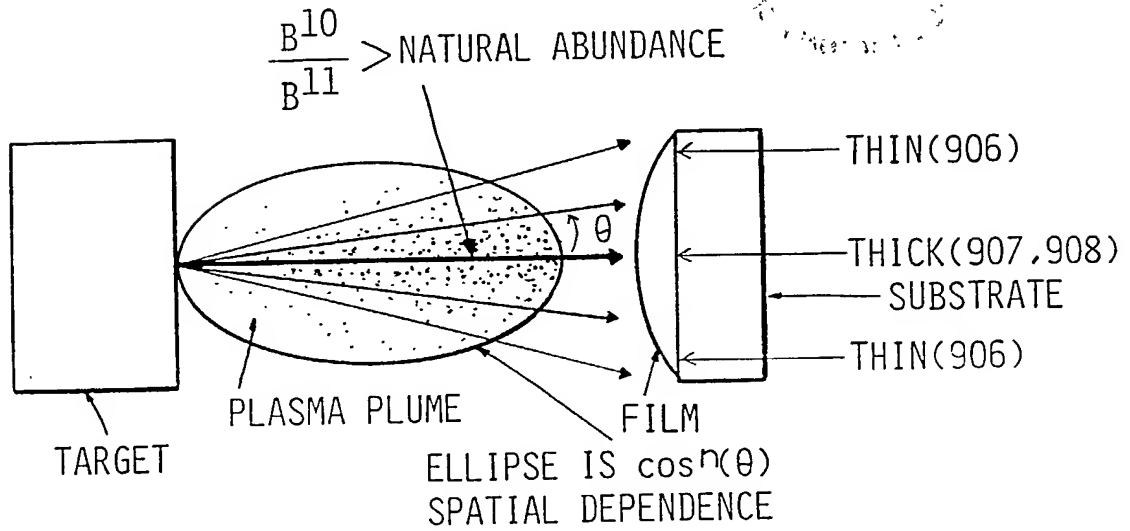


FIG. 11

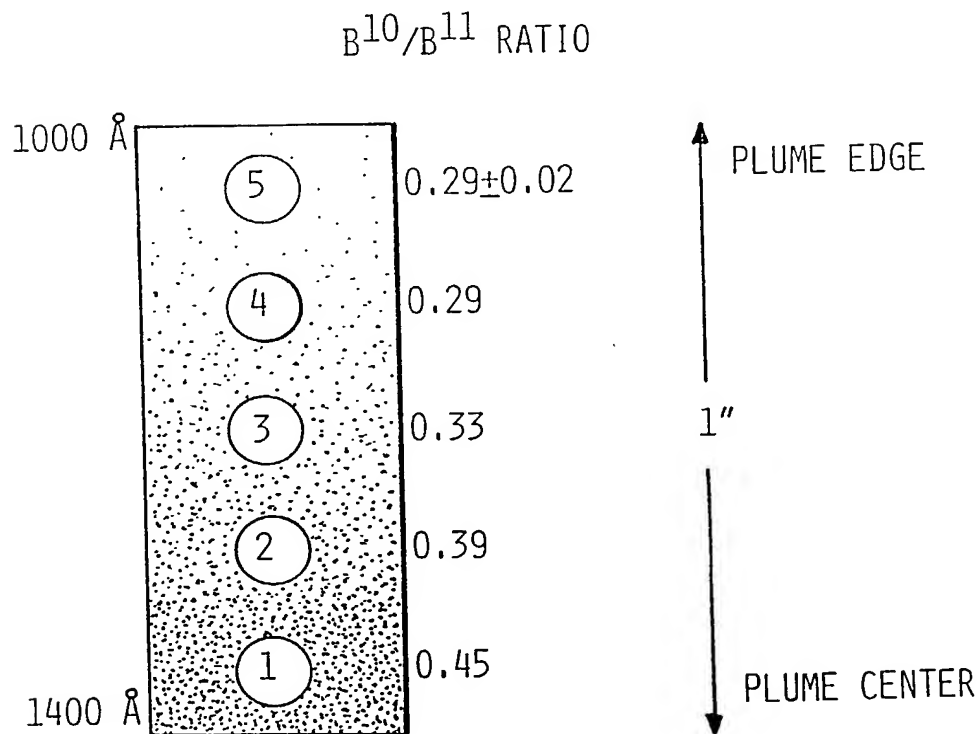
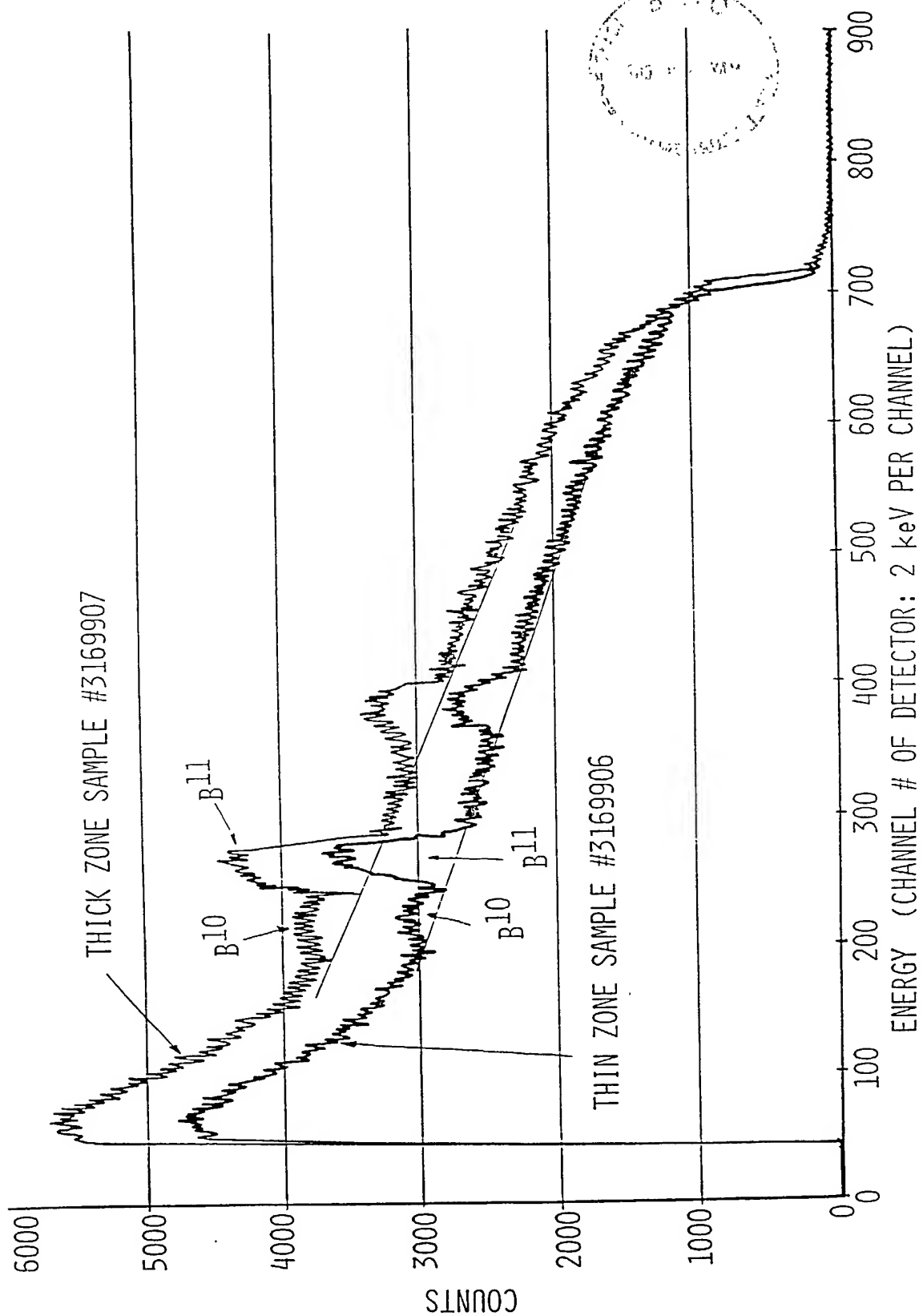
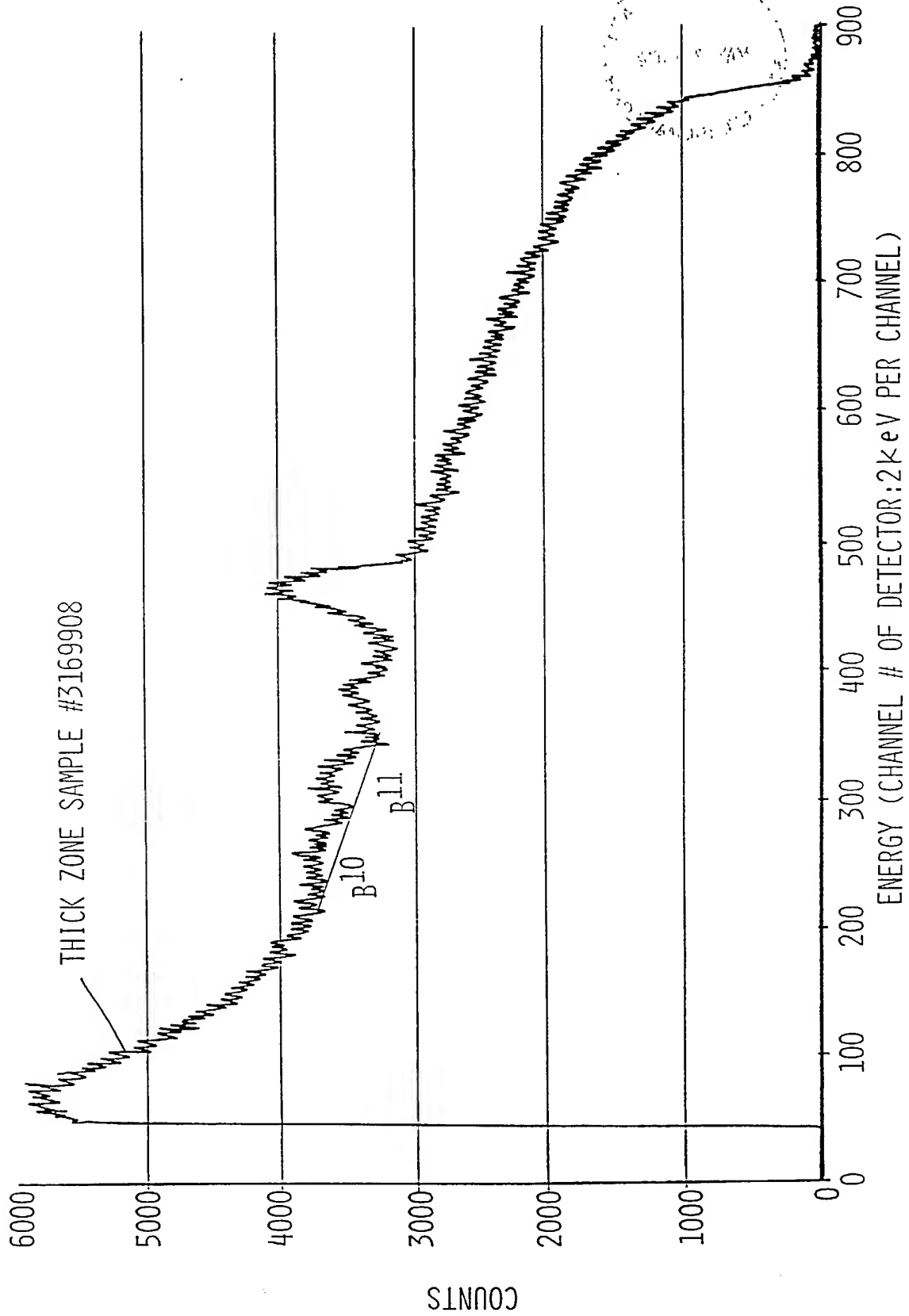


FIG. 14A

12/24



13/24



14/24

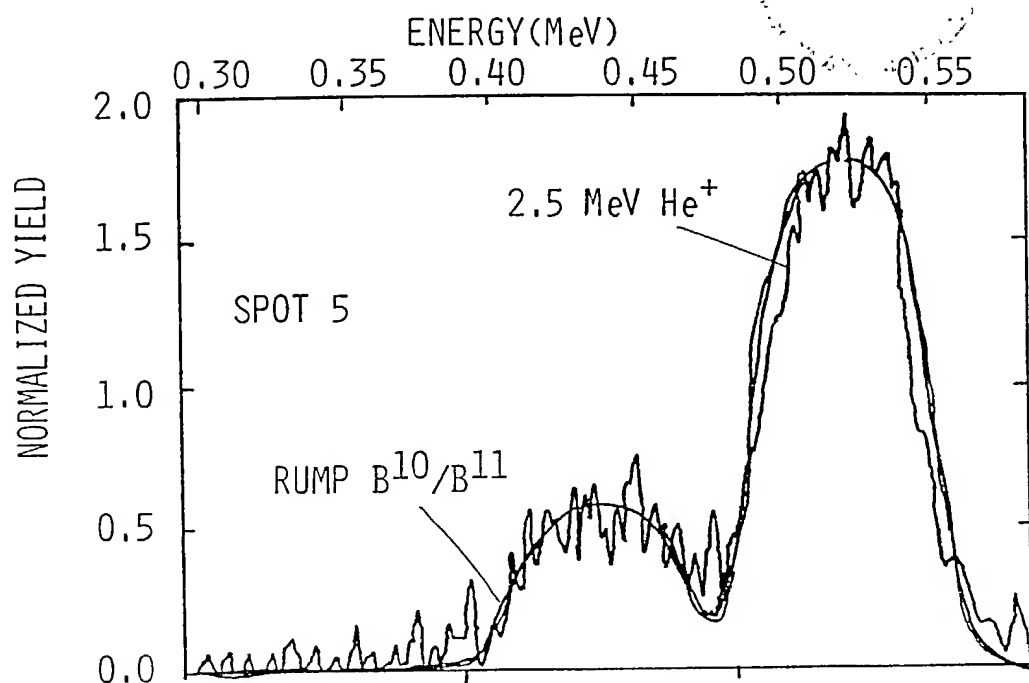


FIG.14B

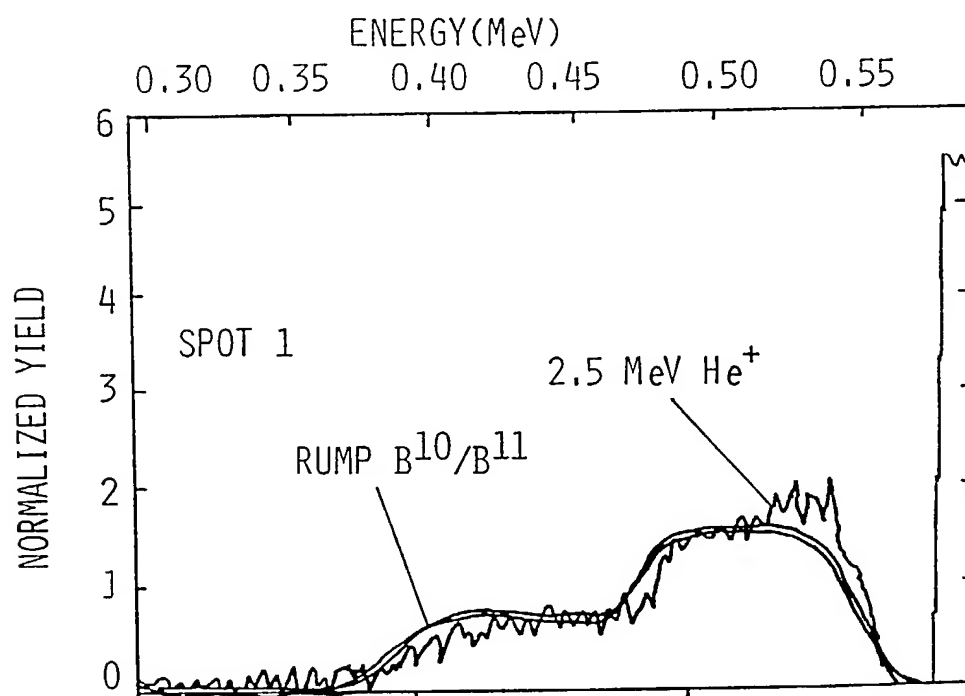


FIG.14C

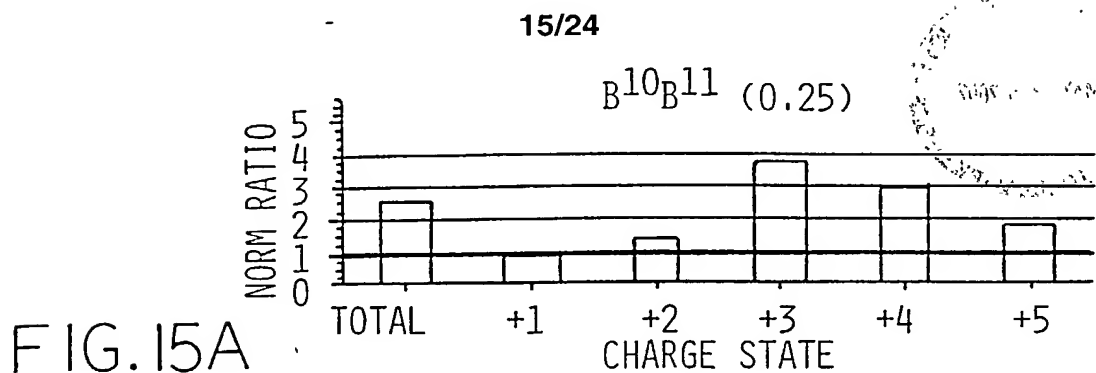


FIG. 15A

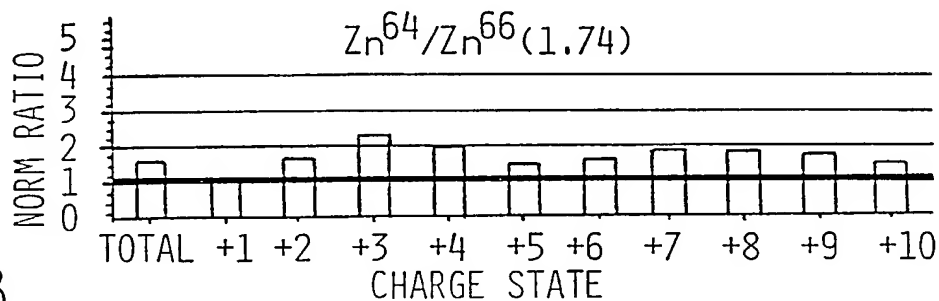


FIG. 15B

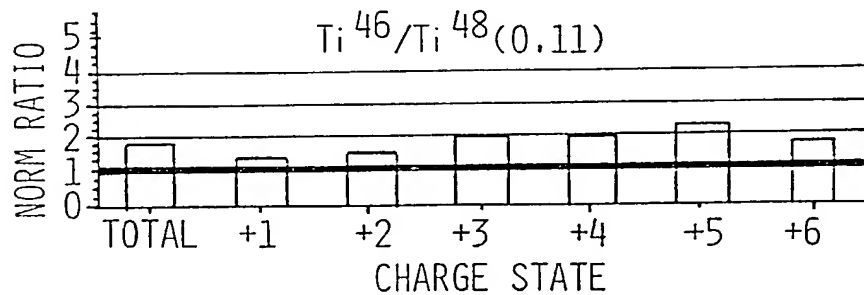


FIG. 15C

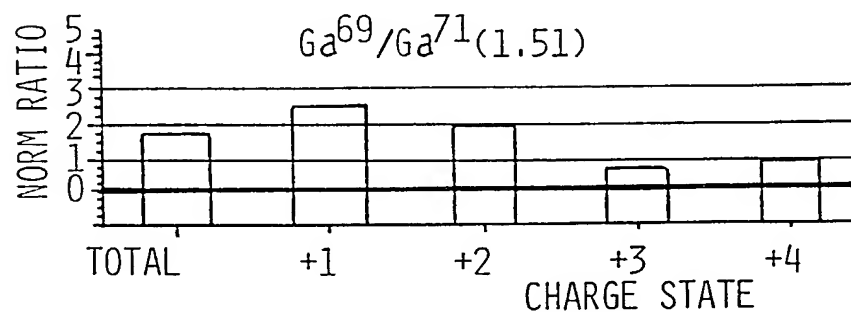


FIG. 15D

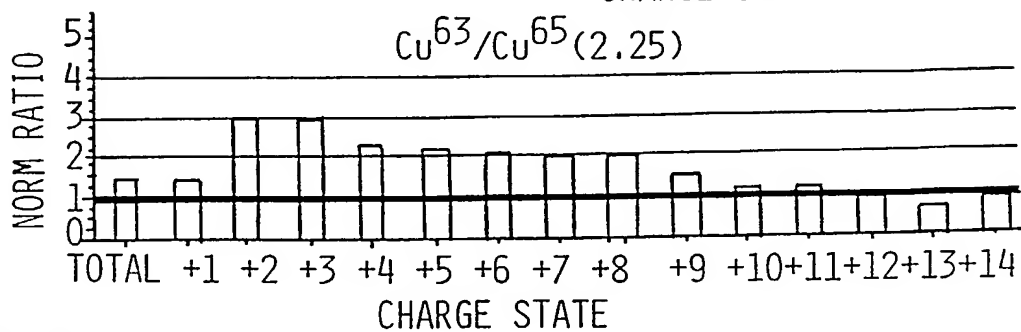


FIG. 15E

16/24

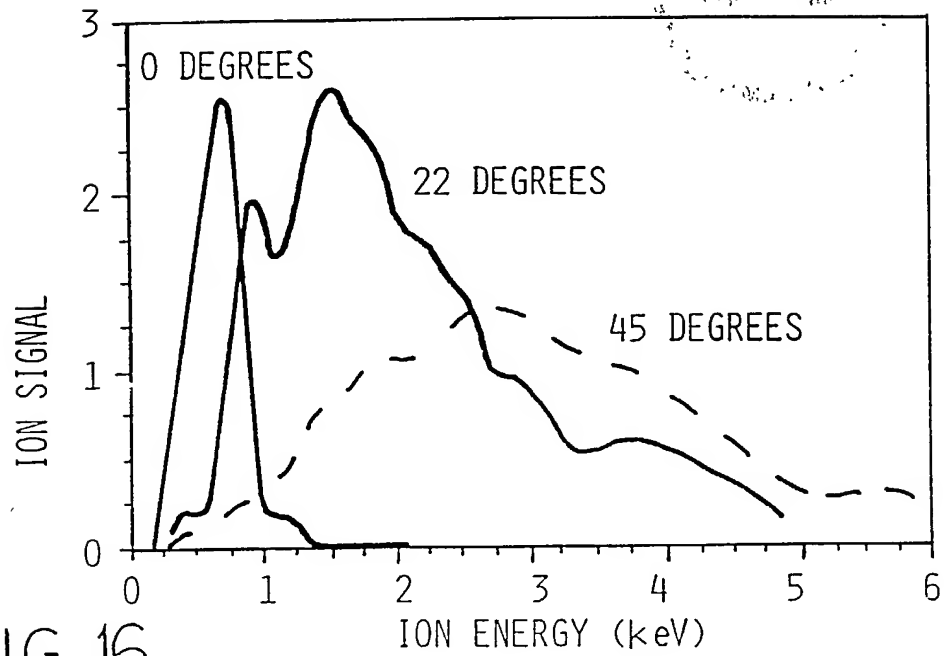


FIG.16

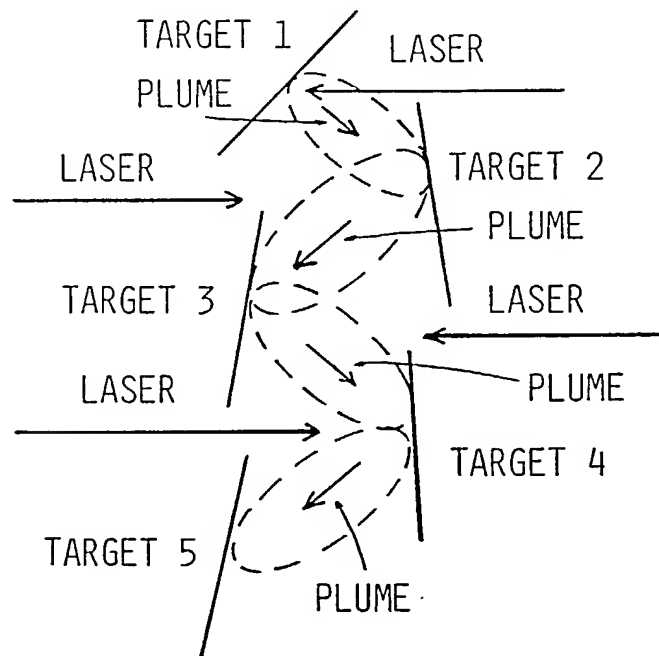


FIG.18

17/24

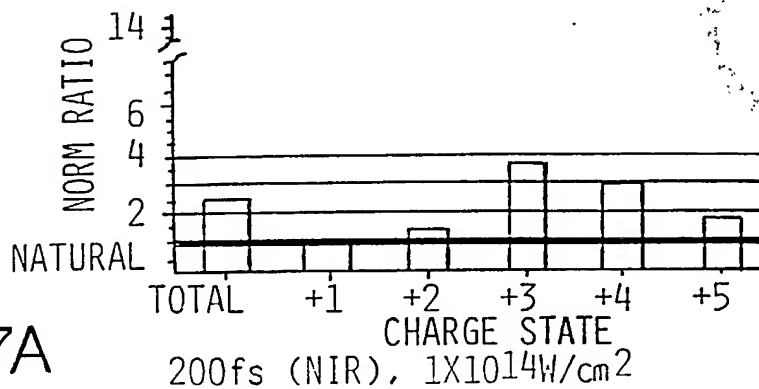


FIG.17A

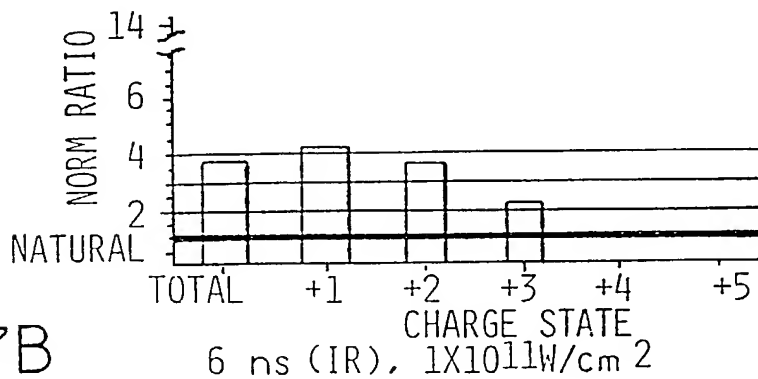


FIG.17B

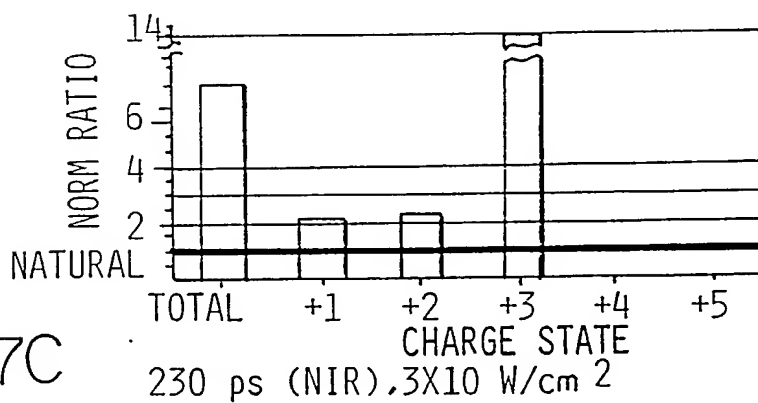


FIG.17C

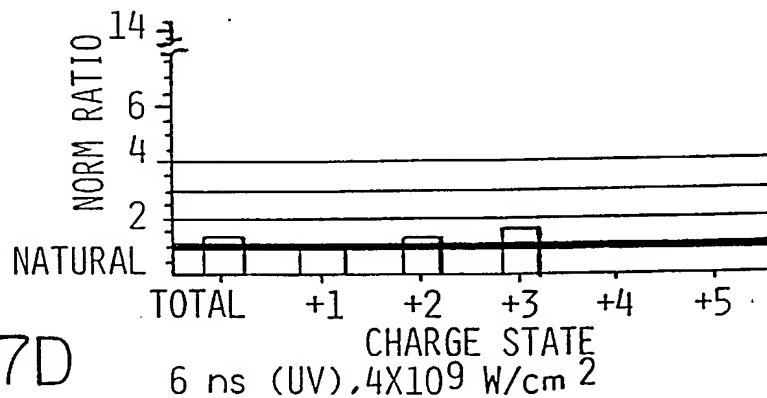


FIG.17D

18/24

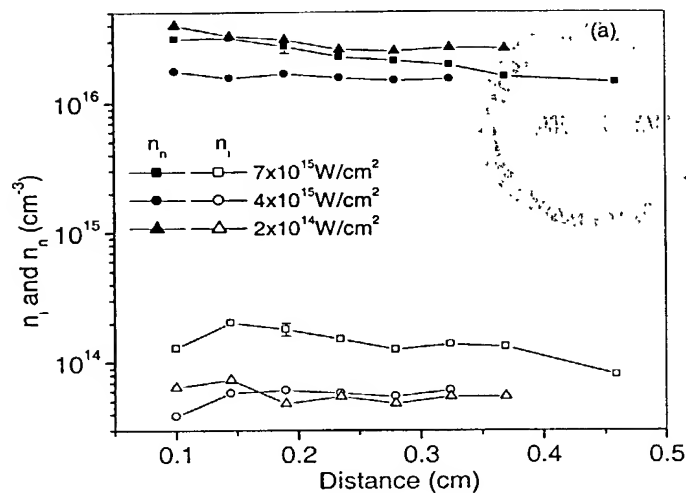


FIG. 19A

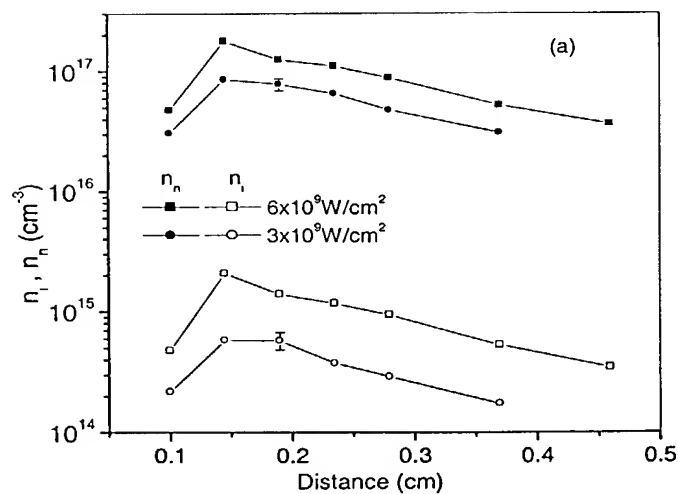


FIG. 19B

19/24

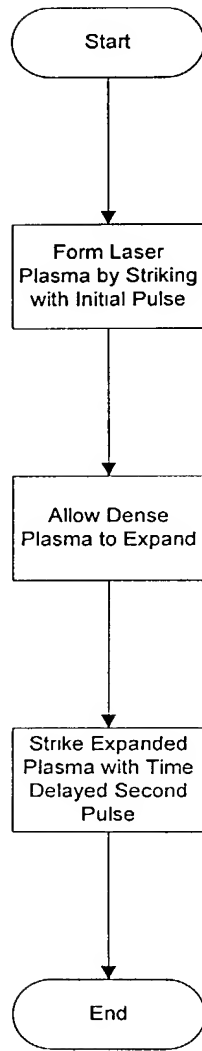


FIG. 20

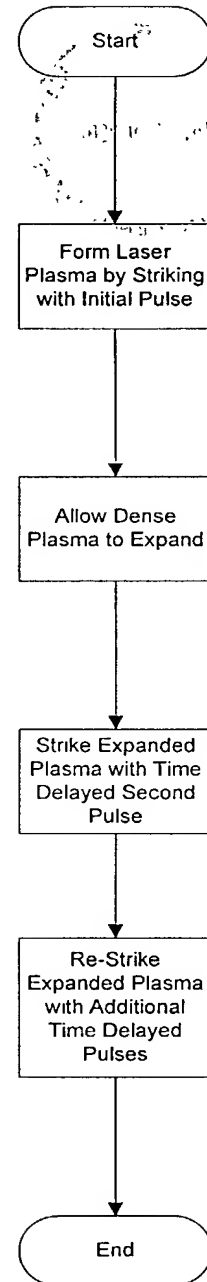
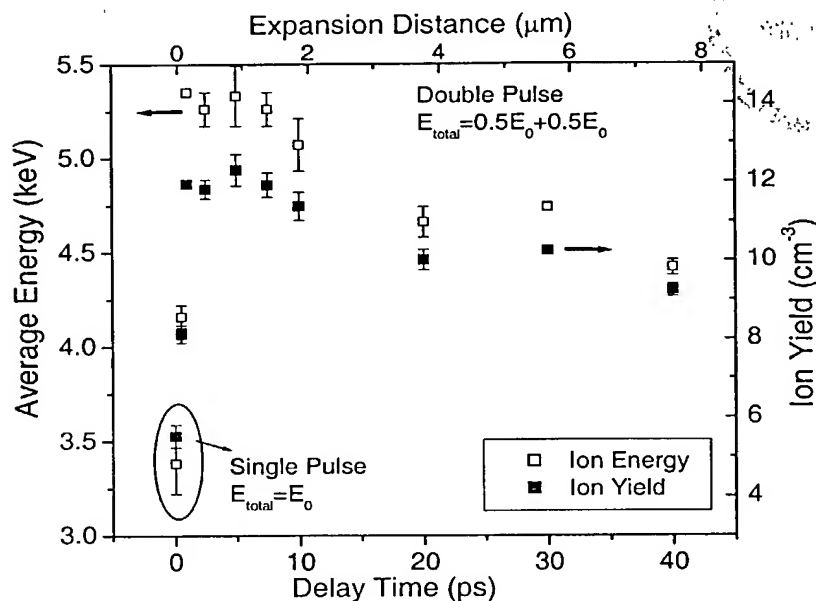


FIG. 23

20/24

FIG. 21



21/24

FIG. 24

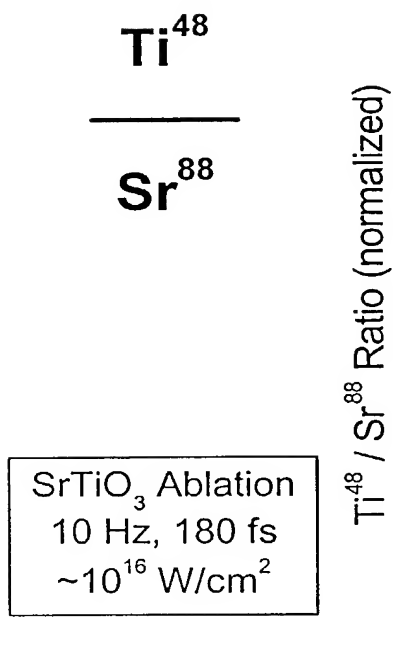
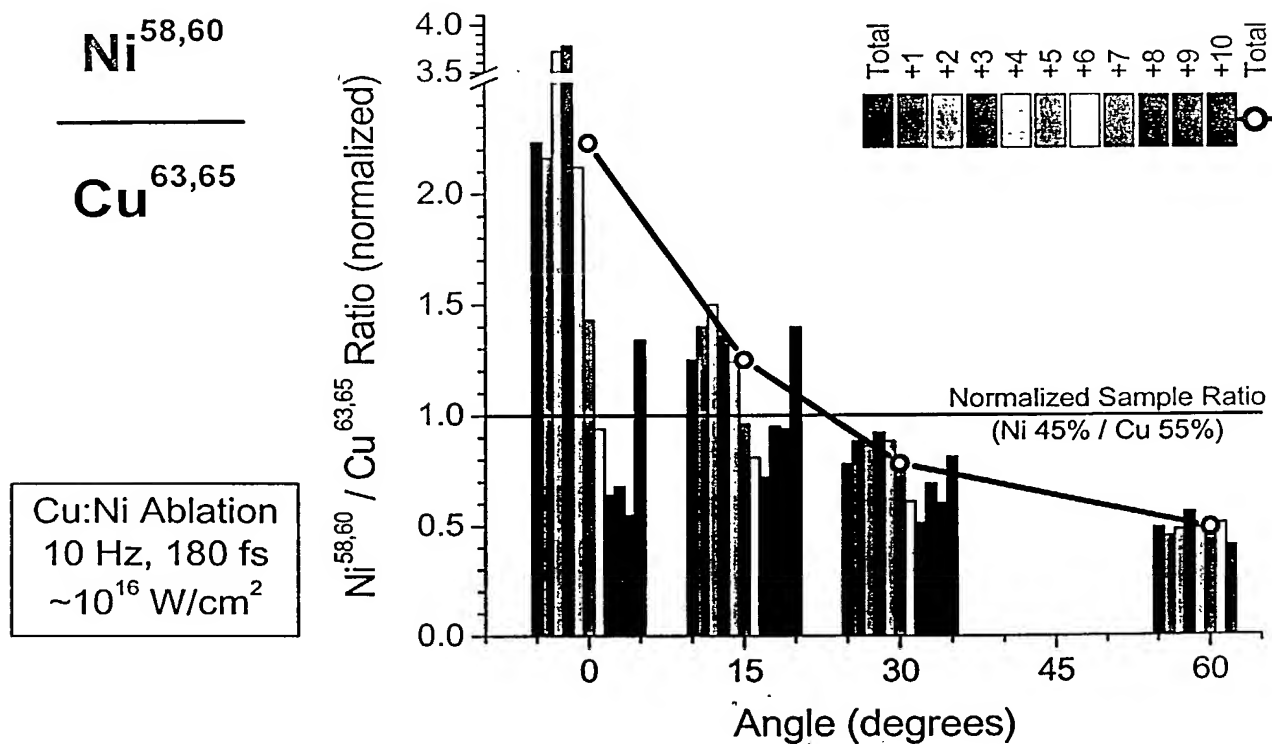


FIG. 25



22/24

FIG. 26

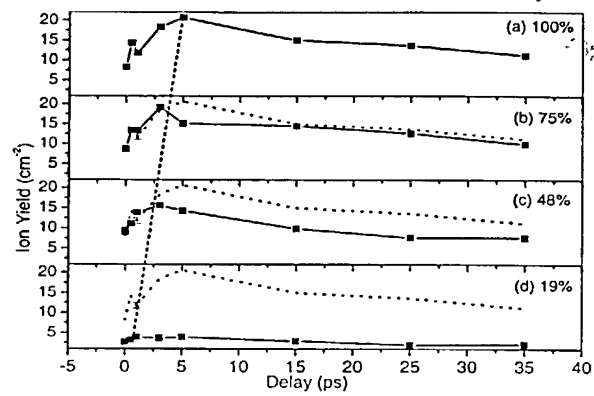


FIG. 27

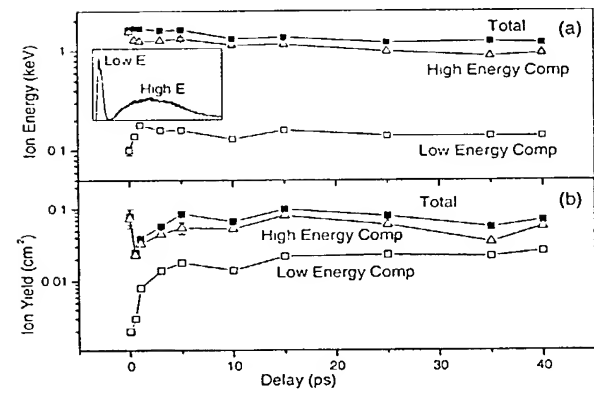
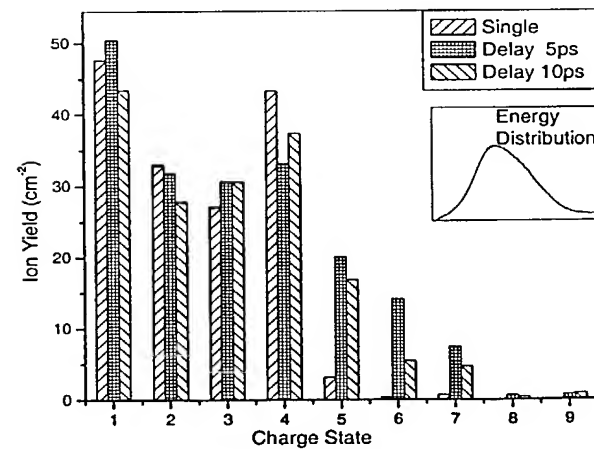


FIG. 28



24/24

FIG. 29

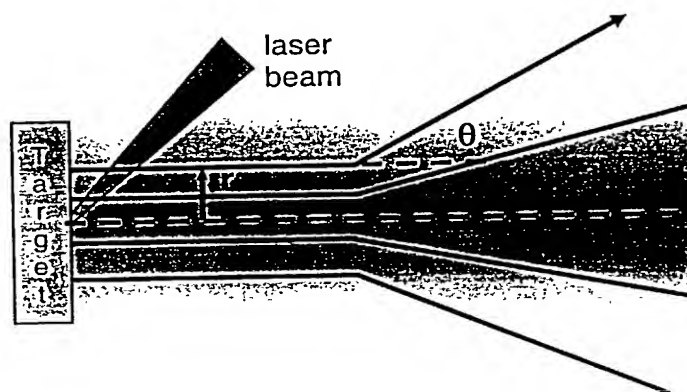
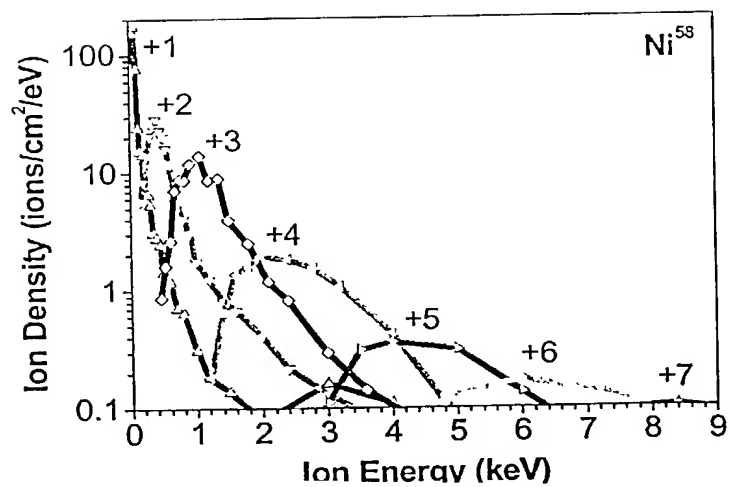


FIG. 30



Bar chart showing the $\text{Ni}^{58} / \text{Ni}^{60}$ Ratio (normalized) versus Angle (degrees). The y-axis ranges from 0 to 22, with a break between 4 and 20. The x-axis ranges from 0 to 60 degrees. The legend includes Total, +1, +2, +3, +4, +5, +6, +7, +8, +9, +10, and Total. A horizontal line at y=1 represents the natural ratio (68% Ni^{58} , 26% Ni^{60}). A line connects the 'Total' bar at 0 degrees to the 'Total' bar at 60 degrees.

[illegible]